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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/775,780	02/10/2004	Keren I. Hulkower	06244.00002	06244.00002 9361	
26259	7590 09/07/2005		EXAMINER		
LICATLA & TYRRELL P.C.			VENCI, DAVID J		
	MAIN STREET LTON, NJ 08053		ART UNIT	PAPER NUMBER	
,			1641	1641	
			DATE MAILED: 09/07/2009	DATE MAILED: 09/07/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/775,780	HULKOWER ET AL.			
Office Action Summary	Examiner	Art Unit			
	David J. Venci	1641			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status	•				
1) Responsive to communication(s) filed on <u>July 28, 2005</u> .					
2a)⊠ This action is FINAL. 2b)□ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>137-142 and 148-153</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>137-142 and 148-153</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1.☐ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
·					
Attachment(s)	_				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail D				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)			
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ad	ction Summary Pa	art of Paper No./Mail Date 20050823			

DETAILED ACTION

Examiner acknowledges Applicants' reply, filed July 28, 2005, which cancelled claims 143-147. Currently, claims 137-142 and 148-153 are under examination.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

Claims 137-142 and 148-153 are rejected under 35 U.S.C. 102(b) as being anticipated by Humphries et al. (US 4,849,330).

Humphries et al. describe a device comprising an analyte-specific compound (see col. 8, line 47, "antibodies"), an analyte (see col. 8, lines 49-50, "ligands"), a detectable compound (see col. 9, line 41, "redox material"), a porphyrin dye (see col. 7, lines 53-54, "cytochrome C, and cytochrome b₂"), an enzyme conjugated to the analyte-specific compound (see col. 10, lines 56-57, "enzyme conjugated to... reciprocal binding pair member"), a substrate of the enzyme (see col. 10, line 51, "substrates"), a conjugate comprising an enzyme and a non-analyte-specific compound (see col. 9, lines 26-29, "label conjugated to... analyte analog"), a capture analyte-specific compound (see col. 11, line 12, "sandwich immunoassay"), a tracer comprising an analyte molecule bound to an enzyme (see col. 9, lines 26-29, "label conjugated to... analyte"), a receptor molecule (see col. 8, line 47, "antibodies"), and a sample (see col. 9, line 28, "sample").

Double Patenting

Claims 137-142 and 148-153 are rejected under the judicially created doctrine of obviousness-type

double patenting as being unpatentable over claims 1 and 40 of U.S. Patent No. 6,495,102 in view of

Humphries et al. (US 4,849,330).

U.S. Patent No. 6,495,102 claims a device (see e.g. claim 1, "nose") comprising at least one porphyrin

dye (see e.g. claim 1, "porphyrin"). U.S. Patent No. 6,495,102 does not claim an analyte-specific

compound, an analyte, a detectable compound, an enzyme conjugated to the analyte-specific compound,

a substrate of the enzyme, a conjugate comprising an enzyme and a non-analyte-specific compound, a

capture analyte-specific compound, a tracer comprising an analyte molecule bound to an enzyme, a

receptor molecule, and a sample.

However, Humphries et al. describe a device comprising an analyte-specific compound (see col. 8, line

47, "antibodies"), an analyte (see col. 8, lines 49-50, "ligands"), a detectable compound (see col. 9, line

41, "redox material"), an enzyme conjugated to the analyte-specific compound (see col. 10, lines 56-57,

"enzyme conjugated to... reciprocal binding pair member"), a substrate of the enzyme (see col. 10, line

51, "substrates"), a conjugate comprising an enzyme and a non-analyte-specific compound (see col. 9,

lines 26-29, "label conjugated to... analyte analog"), a capture analyte-specific compound (see col. 11,

line 12, "sandwich immunoassay"), a tracer comprising an analyte molecule bound to an enzyme (see col.

9, lines 26-29, "label conjugated to... analyte"), a receptor molecule (see col. 8, line 47, "antibodies"), and

a sample (see col. 9, line 28, "sample").

Therefore, it would have been obvious for a person of ordinary skill in the art to modify the nose, as

recited in claims 1 and 40 of U.S. Patent No. 6,495,102, by inserting various immunoassay components

up it because Humphries et al. discovered a device providing "specific interactions" (see col. 4, line 64)

for detecting the presence of "specific components" (see col. 8, lines 33-34) in complex mixtures, such as urine (see col. 8, lines 40-42).

Claims 137-142 and 148-153 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1 and 26 of copending Application No. 10/278421 in view of Humphries et al. (US 4,849,330), or alternatively, claims 1 and 21 of copending Application No. 10/279788 in view of Humphries et al. (US 4,849,330).

Application Nos. 10/278421 and 10/279788 claim a device (see e.g. claim 1, "nose") comprising at least one porphyrin dye (see e.g. claim 1, "porphyrin"). Application Nos. 10/278421 and 10/279788 do not claim an analyte-specific compound, an analyte, a detectable compound, an enzyme conjugated to the analyte-specific compound, a substrate of the enzyme, a conjugate comprising an enzyme and a non-analyte-specific compound, a capture analyte-specific compound, a tracer comprising an analyte molecule bound to an enzyme, a receptor molecule, and a sample.

However, Humphries et al. describe a device comprising an analyte-specific compound (see col. 8, line 47, "antibodies"), an analyte (see col. 8, lines 49-50, "ligands"), a detectable compound (see col. 9, line 41, "redox material"), an enzyme conjugated to the analyte-specific compound (see col. 10, lines 56-57, "enzyme conjugated to... reciprocal binding pair member"), a substrate of the enzyme (see col. 10, line 51, "substrates"), a conjugate comprising an enzyme and a non-analyte-specific compound (see col. 9, lines 26-29, "label conjugated to... analyte analog"), a capture analyte-specific compound (see col. 11, line 12, "sandwich immunoassay"), a tracer comprising an analyte molecule bound to an enzyme (see col. 9, lines 26-29, "label conjugated to... analyte"), a receptor molecule (see col. 8, line 47, "antibodies"), and a sample (see col. 9, line 28, "sample").

Application/Control Number: 10/775,780

Art Unit: 1641

recited in claim 1 and 26 of Application No. 10/278421, or alternatively, claims 1 and 21 of copending

Therefore, it would have been obvious for a person of ordinary skill in the art to modify the tongue, as

Application No. 10/279788, by placing various immunoassay components on it because Humphries et al.

discovered a device providing "specific interactions" (see col. 4, line 64) for detecting the presence of

"specific components" (see col. 8, lines 33-34) in complex mixtures, such as saliva (see col. 8, lines 40-

42).

These are provisional obviousness-type double patenting rejections.

Page 5

Response to Arguments

In prior Office Action, claims 137-142 and 148-153 were rejected under 35 U.S.C. 102(b) as being

anticipated by Humphries et al. (US 4,849,330). In response, Applicants argue that Humphries et al. do

not teach a porphyrin dye which binds to a detectable compound. Applicants appear to argue that

interactions involving heme porphyrin are limited to molecules belonging to "the cytochrome protein

component" (see Applicants' reply, p. 7, lines 23-25).

Applicants' argument has been carefully considered but is not persuasive because Applicants' invention,

as claimed, merely requires a "porphyrin dye" which binds a "detectable compound". Humphries et al.

teach a porphyrin dye (see col. 7, lines 53-54, "cytochrome C, and cytochrome b2") which binds a

detectable compound (see col. 9, line 41, "redox material"). Applicants' position that interactions involving

heme porphyrin are limited to molecules belonging to "the cytochrome protein component" does not

appear to detract from the reality that Humphries et al. teach a porphyrin dye (see col. 7, lines 53-54,

"cytochrome C, and cytochrome b2") which binds a detectable compound (see col. 9, line 41, "redox

material"). Thus, Humphries et al. fully meet the claimed limitations of Applicants' invention.

In prior Office Action, claims 137-142 and 148-153 were rejected under the judicially created doctrine of

obviousness-type double patenting as being unpatentable over claims 1 and 40 of U.S. Patent No.

6,495,102 in view of Humphries et al. (US 4,849,330). In addition, claims 137-142 and 148-153 were

provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being

unpatentable over claims 1 and 26 of copending Application No. 10/278421 in view of Humphries et al.

(US 4,849,330), or alternatively, claims 1 and 21 of copending Application No. 10/279788 in view of

Humphries et al. (US 4,849,330). In response, Applicants distinguish claims 137-142 and 148-153 of the

instant application, which require indirect detection of analyte. As such, Applicants argue that the

Application/Control Number: 10/775,780

Art Unit: 1641

combined teachings of U.S. Patent No. 6,495,102, or copending Applications No. 10/278421, or

Page 7

10/279788 with Humphries et al. require "substantial reconstruction and redesign" and would require "a

change in the basic principle" under which the devices of U.S. Patent No. 6,495,102, or copending

Applications No. 10/278421, or 10/279788 were designed to operate.

Applicants' argument has been carefully considered but is not persuasive because the general operating

principle underlying the invention of claims 137-142 and 148-153 of the instant application appear to be

nearly identical compared to the general operating principle underlying the devices claimed in U.S. Patent

No. 6,495,102, or copending Applications No. 10/278421, or 10/279788. Differences in analyte detection

(i.e. indirect detection versus direct detection) appear minor such that persons of ordinary skill in the art

would not have been precluded for any technical reason from combining the teachings of Humphries et

al. to arrive at Applicants' claimed invention, but would have considered such a combination obvious for

the reasons set forth supra.

Application/Control Number: 10/775,780

Art Unit: 1641

Page 8

Conclusion

No claims are allowed at this time.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS

from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing

date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH

shortened statutory period, then the shortened statutory period will expire on the date the advisory action

is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX

MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be

directed to David J. Venci whose telephone number is 571-272-2879. The examiner can normally be

reached on 08:00 - 16:30 (EST). If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

David J Venci Examiner Art Unit 1641

djν

LONG V. LE

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600

08/31/05